CLAIMS:

What is claimed is:

- 1 1. A method in a data processing system for
- 2 transferring data from a plurality of host data links to
- 3 at least one local data link, the method comprising the
- 4 steps of:
- 5 initializing a data bridge, wherein the data bridge
- 6 is functionally connected on a first end to the plurality
- 7 of host data links and on a second end to the at least
- 8 one local data link;
- 9 determining if a first data link within the
- 10 plurality of host data links and a second data link
- 11 within the at least one local data link initiate a login
- 12 parameter; and
- automatically transferring the data from a source
- 14 data link within the first plurality of data links to a
- 15 target data link within the at least one local data link
- 16 based on the login parameter.
 - 1 2. The method of claim 1, wherein the data transferred
 - 2 from the source link is stored in a memory buffer device.
 - 1 3. The method of claim 1, wherein the data bridge is a
 - 2 data link concentrator.

- 1 4. The method of claim 1, wherein initializing the data
- 2 bridge includes resetting the data bridge.
- 1 5. The method of claim 4, wherein if the data bridge is
- 2 reset, the plurality of host data links functionally
- 3 connected to the data bridge and the at least one local
- 4 data link functionally connected to the data bridge are
- 5 forced offline by the data bridge.
- 1 6. The method of claim 4, further comprising:
- 2 monitoring a signal from the first data link within
- 3 the plurality of host data links and a signal from the
- 4 second data link within the at least one local data link
- 5 functionally connected to the data bridge;
- 6 determining whether an initiating sequence signal is
- 7 received by the first data link and the second data link;
- 8 and
- 9 establishing a data bridge active state if the
- 10 initiating sequence signal is received by the first data
- 11 link and the second data link.
 - 1 7. The method of claim 6, further comprising:
 - 2 terminating data transfer from the source data link
 - 3 within the plurality of host data links to the target
 - 4 data link within the at least one local data link if the
 - 5 data bridge is in an offline state.

- 1 8. The method of claim 6, further comprising:
- 2 monitoring the plurality of host data links and the
- 3 at least one local data link functionally connected to
- 4 the data bridge; and
- 5 terminating data transfer from the source data link
- 6 to the target data link if the plurality of host data
- 7 links or the at least one local data link does not remain
- 8 in an active state.
- 1 9. The method of claim 8, wherein if the plurality of
- 2 host data links and the at least one local data link
- 3 complete an offline state protocol, the data bridge is
- 4 reset.
- 1 10. The method of claim 1, wherein the login parameter
- 2 includes a fibre channel fabric login parameter and a
- 3 fibre channel port login parameter.
- 1 11. The method of claim 10, wherein the fibre channel
- 2 login parameter includes buffer credits.
- 1 12. The method of claim 10, wherein the fibre channel
- 2 port parameter includes a port identification.
- 1 13. The method of claim 1, further comprising:
- 2 automatically transferring the data from a source
- 3 data link within the plurality of host data links to a
- 4 buffer device if the data bridge is in a lockout mode.

- 1 14. An apparatus for transferring data from a plurality
- 2 of host data links to at least one local data link,
- 3 comprising:
- 4 and array of data links; and
- 5 a data bridge coupled on a first end to the
- 6 plurality of host data links and on a second end to the
- 7 at least one local data link, wherein the data bridge is
- 8 initialized, the data bridge determines if a first data
- 9 link within the plurality of host data links and a second
- 10 data link within the at least one local data link
- 11 initiate a login parameter, and the data bridge
- 12 automatically transfers the data from a source data link
- 13 within the plurality of host data links to a target data
- 14 link within the at least one local data link based on the
- 15 login parameter.
 - 1 15. The apparatus of claim 14, wherein the data
 - 2 transferred from the source link is stored in a memory
 - 3 buffer device.
 - 1 16. The apparatus of claim 14, wherein the data bridge
 - 2 is a data link concentrator.
 - 1 17. The apparatus of claim 14, wherein initializing the
 - 2 data bridge includes resetting the data bridge.
 - 1 18. The apparatus of claim 17, wherein if the data
 - 2 bridge is reset, the plurality of host data links
 - 3 functionally connected to the data bridge and the at lest

- 4 one local data link functionally connected to the data
- 5 bridge are forced offline by the data bridge.
- 1 19. The apparatus of claim 17, wherein if the data
- 2 bridge monitors a signal from the first data link and a
- 3 signal from the second data link functionally connected
- 4 to the data bridge, the data bridge determines whether an
- 5 initiating sequence signal is received by the first data
- 6 link and the second data link, a data bridge active state
- 7 is established if the initiating sequence signal is
- 8 received by the first data link and the second data link.
- 1 20. The apparatus of claim 19, wherein the data bridge
- 2 terminates data transfer from the source data link to the
- 3 target data link if the data bridge is in an offline
- 4 state.
- 1 21. The apparatus of claim 19, wherein the data bridge
- 2 monitors the plurality of host data links and the at
- 3 least one local data link functionally connected to the
- 4 data bridge and the data bridge terminates data transfer
- 5 from the source data link to the target data link if the
- 6 plurality of host data links or the at least one local
- 7 data link does not remain in an active state.
- 1 22. The apparatus of claim 21, wherein if the plurality
- 2 of host data links and the at least one local data link
- 3 complete an offline state protocol, the data bridge is
- 4 reset.

- 1 23. The apparatus of claim 14, wherein the login
- 2 parameter includes a fibre channel fabric login parameter
- 3 and a fibre channel port login parameter.
- 1 24. The apparatus of claim 23, wherein the fibre channel
- 2 login parameter includes buffer credits.
- 1 25. The apparatus of claim 23, wherein the fibre channel
- 2 port parameter includes a port identification.
- 1 26. The apparatus of claim 14, wherein the data bridge
- 2 automatically transfers the data from a source data link
- 3 to a buffer device if the data bridge is in a lockout
- 4 mode.